

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-4. (Canceled.)

5.(Original) A method for identifying one or more candidate compounds as modulators of a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20, comprising the steps of:

(a) contacting said one or more compounds with a host cell or with membrane of a host cell that expresses said receptor; and

(b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor.

6. (Original) The method of claim 5 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor, said receptor comprising the polypeptide of SEQ ID NO:20.

7. (Original) A method for identifying one or more candidate compounds as modulators of a G protein-coupled receptor consisting of the polypeptide of SEQ.ID.NO.:20, comprising the steps of:

(a) contacting said one or more compounds with a host cell or with membrane of a host cell that expresses said receptor; and

(b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor.

8. (Original) The method of claim 7 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor, said receptor consisting of the polypeptide of SEQ.ID.NO.:20.

9-20. (Canceled.)

21. (Original) A method for identifying one or more candidate compounds as modulators of a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine, comprising the steps of:

(a) contacting said one or more compounds with a host cell or with membrane of a host cell that expresses said receptor; and

(b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor.

22. (Original) The method of claim 21 wherein the glycine at amino acid position 285 is substituted with lysine.

23. (Original) The method of claim 21 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine.

24. (Original) A method for identifying one or more candidate compounds as modulators of a G protein-coupled receptor consisting of the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine, comprising the steps of:

(a) contacting said one or more compounds with a host cell or with membrane of a host cell that expresses said receptor; and

(b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor.

25. (Original) The method of claim 24 wherein the glycine at amino acid position 285 is substituted with lysine.

26. (Original) The method of claim 24 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor consisting of the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine.

27. (Canceled.)